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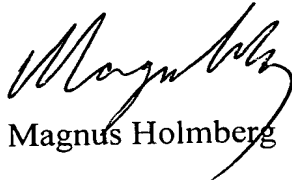
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## CERTIFICATE

US Patent Application No. 09/882692

The undersigned hereby certifies that the enclosed English translation is in full agreement with the Swedish priority application No. 9804389-6.

Stockholm on 13 March 2003



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## **Loading compartment**

The present invention relates to a loading compartment in a vehicle, comprising a recess in the floor of the vehicle  
5 and a cover which in a closed position essentially covers the recess and in an open position allows access to a storage space defined by the recess, which cover is articulately mounted in the floor.

10 In the transportation of goods such as food bags and cardboard boxes, a vehicle is often used. The goods are then placed preferably in the boot of the vehicle. The boot can be separate from the passenger compartment of the vehicle, such as in vehicles of the saloon car type, or  
15 can constitute a part of the passenger compartment, such as in station wagon or estate car models.

In existing vehicles, the floor of the boot is provided with a recess which defines a storage space in which a  
20 spare wheel and/or a battery can be stored. The recess is covered with a cover, which is articulately mounted in the floor. In the closed position of the cover, the cover constitutes a part of the floor of the vehicle on which goods can be placed.

25 The goods placed on the floor of the boot have proved however to have a tendency to tip over and/or move while the vehicle is moving, which means that the goods may be damaged or the goods may damage the furnishings of the  
30 vehicle.

An object of the present invention is therefore to produce a loading compartment in a vehicle which fixes and lends support to the goods in the vehicle and hence prevents the  
35 goods from tipping over and/or moving in the vehicle.

This is achieved by virtue of a loading compartment of the kind stated in the introduction in which at least one supporting member is disposed on the cover so as to fix and lend support to goods placed in the storage space.

5

This is also achieved by virtue of a loading compartment of the kind stated in the introduction in which a load-receiving element matched to the shape of the recess is detachably disposed in the recess, which load-receiving  
10 element is provided with load-receiving surfaces for fixing and lending support to goods placed on the load-receiving element.

The load-receiving surfaces of the load-receiving element  
15 and the supporting member disposed on the cover fix and lend support to the goods, so that the goods are prevented from tipping over and/or moving.

The invention will be described in greater detail below  
20 with reference to an embodiment shown in the appended drawings, in which:

Fig. 1 shows a loading compartment in a vehicle in a  
view seen from the rear of the vehicle, and

25

Fig. 2 shows a perspective view of the loading compartment according to Fig. 1.

In Fig. 1, a loading compartment 1 is shown in a vehicle 2  
30 in a view seen from the rear of the vehicle 2. According to the illustrative embodiment shown, the vehicle 2 is of the station wagon type, in which the rear hatch or the rear door to the boot 3 of the vehicle 2 is open. In Fig.  
2, the loading compartment 1 according to Fig. 1 is shown  
35 in perspective. The floor 4 of the boot 3 is provided with

a recess 5, which defines a storage space 6 for a spare wheel and battery (not shown).

5 A cover 7 is articulately mounted in the floor 4 by means of hinges 8. In Fig. 1, the cover 7 is raised into an open position, which allows access to the storage space 6. In a closed position, the cover 7 essentially covers the recess 5, so that the cover 7 coincides with the plane of the floor 4.

10

In the recess 5 there is disposed a load-receiving element 9. The load-receiving element 9 is removable to allow access to the storage space 6. Preferably, the load-receiving element 9 is shaped as a casing and provided  
15 with load-receiving surfaces in the form of a bottom surface 10 and side surfaces 11, which fix and lend support to goods (not shown) which are placed on the load-receiving element 9. The load-receiving element 9 is preferably made of injection-moulded plastic, but other  
20 materials are also conceivable. The bottom surface 10 is patterned to further lend support to goods placed on the surface 10, so that the said goods are prevented from sliding and moving in the loading compartment 1. The load-receiving element 9 is preferably detachably connected to  
25 the floor 4 by means of fastening devices 12, such as clips or screws. In Fig. 1, the bottom surface 10 is provided with a step 13, so that two levels of the bottom surface 10 are formed. This allows adaptation to goods of different sizes. It is nevertheless conceivable for the  
30 bottom surface 10 just to have one level. The shape of the load-receiving element 9 is preferably matched to the recess.

35 The cover 7 is articulately fitted to a front edge of the recess 5 in relation to the vehicle 2 and a load-receiving belt 14 is disposed between the cover 7 and the floor 4 on

each side of the cover 7, which belt 14, together with the cover 7, prevents goods from being thrown forward in the vehicle 2. On the underside 15 of the cover 7, that is to say that side of the cover 7 which, in the closed position of the cover 7, is facing the recess 5, there are disposed first and second supporting members 16,17. The first supporting members comprise supporting flaps 16 articulately mounted on the cover 7, which supporting flaps, with the aid of the load-receiving belts 14, are automatically folded out from the cover 7 when the cover 7 is raised from the closed into the open position. The supporting flaps 16 are spring-tensioned, so that, in the closed position of the cover 7, they are folded in and bear against the cover 7 and, in the open position of the cover 7, they are folded out and extend essentially at right-angles to the cover 7. The second supporting members comprise fastening members 17, disposed on the cover 7, for suspension of goods. According to the illustrative embodiment, the fastening members 17 are constituted by a plurality of hooks which are disposed on the underside 15 of the cover 7. An elastic cord 18 is disposed in the loading compartment 1, which cord can be fastened to the fastening members 17 so as to fix and lend support to the goods placed on the load-receiving element 9. An elastic strap 19 is clamped to the underside 15 of the cover 7, which strap 19 can be placed around the goods. On the underside 15 of the cover 7 there is also disposed a net 20, in which the goods can be placed. The net 20 forms a pocket, which is spring-loaded with the aid of an elastic band 21.

The cover 7 is provided with a handle 22, which can be gripped in order to raise and lower the cover 7. A locking device 23 ensures that the cover 7 is locked when in the lowered, closed position. In order to fix the cover 7 in the raised, open position, one or more leaf springs (not

shown) are arranged in the region of the hinges 8. The leaf springs are configured such that the cover 7 snaps into a bent section of the leaf spring, which means that the cover 7 assumes a fixed position. When in this raised position, the cover 7 slopes preferably rearward in relation to the vehicle 2 at an angle of around 85 degrees between the floor 4 and the underside 15 of the cover 7. This angle of the cover 7 prevents goods from being thrown upward and forward in case of violent motions of the vehicle 2.

It is conceivable for goods to be placed in the loading compartment 1 with the load-receiving element 9 removed. The goods are thus placed directly in the storage space 6 formed by the recess 5. The supporting members 16, 17 fix and lend support to the goods which are placed in the storage space 6.

It is also conceivable to provide the loading compartment 1 just with the load-receiving element 9, the support surfaces 10, 11 of which fix and lend support to the goods which are placed on the load-receiving element 9.

### Patent Claims

1. Loading compartment in a vehicle (2), comprising a recess (5) in the floor (4) of the vehicle (2) and a cover (7) which in a closed position essentially covers the recess (5) and in an open position allows access to a storage space (6) defined by the recess (5), which cover (7) is articulately mounted in the floor (4), characterized in that at least one supporting member (16, 17) is disposed on the cover (7) so as to fix and lend support to goods placed in the storage space (6).
2. Loading compartment according to Claim 1, characterized in that a first supporting member (16) comprises supporting flaps (16) articulately mounted on the cover (7).
3. Loading compartment according to Claim 2, characterized in that the supporting flaps (16) are spring-tensioned, so that, in the closed position of the cover (7), they are folded in and bear against the cover (7) and, in the open position of the cover (7), they are folded out and extend essentially at right-angles to the cover (7).
4. Loading compartment according to any one of Claims 1 - 3, characterized in that the cover (7) is articulately fitted to a front edge of the recess (5) in relation to the vehicle (2) and in that at least one load-receiving belt (14) is disposed between the cover (7) and the floor (4), which belt (14), together with the cover (7), prevents goods from being thrown forward in the vehicle (2).
5. Loading compartment according to any one of Claims 1 - 4, characterized in that a second supporting member (17) comprises fastening members (17), disposed on the cover (7), for suspension of goods.
6. Loading compartment according to Claim 5, characterized in that an elastic cord (18) is disposed in



the loading compartment (1), which cord can be fastened to the fastening members (17) so as to fix and lend support to the goods placed in the recess (5).

5 7. Loading compartment according to any one of Claims 1 - 6, characterized in that a load-receiving element (9) having load-receiving surfaces (10, 11) is detachably disposed in the recess, which element (9) is removable to allow access to the storage space (6).

10 8. Loading compartment according to Claim 7, characterized in that the load-receiving element (9) is shaped as a casing, in which the load-receiving surfaces (10, 11) are constituted by a bottom surface (10) and side surfaces (11).

15 9. Loading compartment in a vehicle (2), comprising a recess (5) in the floor (4) of the vehicle (2) and a cover (7), which in a closed position essentially covers the recess (5) and in an open position allows access to a storage space (6) defined by the recess (5), which cover (7) is articulately mounted in the floor (4),  
20 characterized in that a load-receiving element (9) matched to the shape of the recess (5) is detachably disposed in the recess (5), which load-receiving element (9) is provided with load-receiving surfaces (10, 11) for fixing and lending support to goods placed on the load-receiving  
25 element (9).

10. Loading compartment according to Claim 9, characterized in that the load-receiving element (9) is shaped as a casing, in which the load-receiving surfaces (10, 11) are constituted by a bottom surface (10) and side  
30 surfaces (11).

11. Loading compartment according to Claim 9 or 10, characterized in that at least one supporting member (16, 17) is disposed on the cover (7) so as to fix and lend support to goods placed on the load-receiving element (9).

35 12. Loading compartment according to Claim 11, characterized in that a first supporting member (16)

comprises supporting flaps (16) articulately mounted on the cover (7).

13. Loading compartment according to Claim 12, characterized in that the supporting flaps (16) are  
5 spring-tensioned, so that, in the closed position of the cover (7), they are folded in and bear against the cover (7) and, in the open position of the cover (7), they are folded out and extend essentially at right-angles to the cover (7).

10 14. Loading compartment according to any one of Claims 9 - 13, characterized in that the cover (7) is articulately fitted to a front edge of the recess (5) in relation to the vehicle (2) and in that at least one load-receiving belt (14) is disposed between the cover (7) and the floor  
15 (4), which belt (14), together with the cover (7), prevents goods from being thrown forward in the vehicle (2).

15. Loading compartment according to any one of Claims 9 - 14, characterized in that a second supporting member  
20 (17) comprises fastening members (17), disposed on the cover (7), for suspension of goods.

16. Loading compartment according to Claim 15, characterized in that an elastic cord (18) is disposed in the loading compartment (1), which cord can be fastened to  
25 the fastening members (17) so as to fix and lend support to the goods placed on the load-receiving element (9).

## **Abstract**

The invention relates to a loading compartment (1) in a vehicle (2), comprising a recess (5) in the floor (4) of the vehicle (2) and a cover (7), which in a closed position essentially covers the recess (5) and in an open position allows access to a storage space (6) defined by the recess (5), which cover (7) is articulately mounted in the floor (4). A load-receiving element (9) matched to the shape of the recess (5) is detachably disposed in the recess (5), which load-receiving element (9) is provided with load-receiving surfaces (10, 11) for fixing and lending support to goods placed on the load-receiving element (9). At least one supporting member (16, 17) is disposed on the cover (7) so as to fix goods placed in the storage space (6).